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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/046,861	01/15/2002	Michael L. Santori	5150-64900	5718
35690 75	590 08/03/2005		EXAMINER	
MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.			PALADINI, ALBERT WILLIAM	
P.O. BOX 398 AUSTIN, TX	78767-0398		ART UNIT	PAPER NUMBER
,	70707 0070		2125	
			DATE MAILED: 08/03/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Assista Comment	10/046,861	SANTORI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Albert W. Paladini	2125				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1)⊠ Responsive to communication(s) filed on <u>15 Ja</u>	anuary 2002.	•				
2a) This action is FINAL . 2b) ⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-60</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) <u>46-60</u> is/are allowed. 6) Claim(s) <u>1-45</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2/23/02.	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				
J.S. Patent and Trademark Office						

Art Unit: 2125

DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 2. Claims 1-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1

Lines 11-13 recite, "executing the first graphical program on the computer system to simulate operation of the physical system, wherein the control unit interacts with the first computer system". This step recites executing a program to simulate the operation of a physical system. The "control unit" does not appear to be related to the step. The term "wherein" implies that the interaction of the "control unit" to the computer system is somehow the result of executing the first graphical program, but the logical sequence is not explained.

Appropriate correction and clarification is required.

Allowable Subject Matter

3. Claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

- Claims 2-45 would be allowable if rewritten to overcome the rejection(s) under 35
 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 5. Claims 46-60 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter: None of the references cited or the art searched disclose or teach alone or in combination the system for evaluating the operation of a control unit which is coupled to a first computer system which executes a graphical program which models a physical system, where the control unit interacts with the first computer system to a affect the simulation and where the second computer system executes a second graphical program to measure the characteristics of operation of the control unit, as recited in claims 1, 46, 58, and 59. Although some are method claims and some apparatus claims, each of these independent claims includes the fundamental elements explained in the reasons for allowable subject matter.

Relevant Prior Art

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hugo discloses a method of determining the performance of model predictive controller using only normal operating data and obtaining a measure that accounts for the fixed disturbance model structure of the controller and estimate disturbance model parameters using closed-loop data and estimate of the dead time.

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Koza (6564194) discloses a method and apparatus for the design of controllers, where the performance of a controller is evaluated using the integral of the time-weighted error (ITAE). In one embodiment, various signals (usually including both the reference signal(s) and the plant output(s)) are captured and used externally to evaluate the performance of the controller. In an alternate embodiment, the performance of the controller may be evaluated inline with the controller and plant. This is the case with ITAE. It is highly convenient to do such in-line evaluation when it is possible.

Gade (6754571) discloses a system and method of controlling engine vibration using a plant model to define the physical system controlled, where actual drive data is collected to evaluate data for the controller.

Johnson (6792336) discloses a controller used for biotechnology process control where eight environmental parameter sets were utilized to evaluate the controllers.

8. Any inquiry concerning this communication or earlier communication from the examiner should be direct to Albert W. Paladini whose telephone number is (571) 272-3748. The examiner can normally be reached from 7:00 to 3:00 PM on Monday, Tuesday, Thursday, and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Leo P. Picard, can be reached on (571) 272-3749. The official fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

July 29, 2005

Albert W. Paladini
Primary Examiner
Art Unit 2125